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1968 JUN 29 02 35Z

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FM NPIC WASHDC
TO RUEOFJA/DIA (DIAXX-2)
RUEOJFA/JCS (JRC)
RUEFHQA/HQ USAF FOR AFNICAD, AFRDRP & SAFSS
RUCSAAA/SAC (DIR)
RUWMDDA/9 SRW (DCI)
BT

S E C R E T [REDACTED] CITE NPIC 4115 [REDACTED]
SUBJ: EVALUATION OF GIANT SCALE MISSION S-029.

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1. QUALITY SUMMARY: THIS MISSION PROVIDES IMAGERY WHICH IS GENERALLY BETTER THAN ANY PREVIOUS OPERATIONAL GIANT SCALE MISSION. THE BEST IMAGERY IS LOCATED IN THE EARLIER PORTION OF THE MISSION OVER SOUTH VIETNAM AT AN ALTITUDE OF 74,000 FEET. MOST OF THE REMAINING PORTIONS OF THE MISSION ARE DEGRADED BY CLOUDS AND HAZE. THE INTERPRETATION SUITABILITY AT THE BEGINNING OF THE MISSION IS CONSIDERED GOOD. FOR THE REMAINDER OF THE MISSION SUITABILITY IS CONSIDERED FAIR TO GOOD IN CLOUD FREE AREAS. GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES BASED ON EVALUATIONS OF SIMILAR SENSORS AND IMPLY A BAR AND A SPACE.

THE FOLLOWING

DISTRIBUTION	
OFFICE	PI
FILE	
CABLE SEC.	
PPCR/RD	
SECUR	25X1
MSG	25X1
PSG/OC	
RRD	
REFRO	25X1
AID	
IEG	
PROD	
SCIEN	25X1
WEST	
EAST	
M&S	
PGM	
IAS	25X1
DIA-XX4	
SPAD	
DIA-AP	25X1
CMX	

PAGE 2 RUEADJU 101 S E C R E T [REDACTED]
RESOLUTION ESTIMATES WERE MADE ON THE ORIGINAL NEGATIVE FROM CLOUD FREE IMAGERY AT OR NEAR NADIR AND WHERE THE VEHICLE IS AT ALTITUDE OVER 70,000 FEET.

- LEFT TECHNICAL OBJECTIVE CAMERA
- RIGHT TECHNICAL OBJECTIVE CAMERA
- LEFT OPERATIONAL OBJECTIVE CAMERA
- RIGHT OPERATIONAL OBJECTIVE CAMERA

2. CLOUDS OBSCURE OR DEGRADE 50 PERCENT OF THE ENTIRE MISSION.
3. THE MATERIAL WAS PROCESSED AT [REDACTED] THE MISSION EMPLOYED THE USUAL SENSORS. THE ONLY MATERIALS EVALUATED ARE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS. THE TERRAIN OBJECTIVE CAMERA MATERIAL WAS USED TO DETERMINE THE AREAS OF 80 PERCENT CLOUD FREE PHOTOGRAPHY.

- ANALYSIS OF THE TECHNICAL OBJECTIVE MATERIAL

- COMMENTS APPLICABLE TO BOTH CAMERAS.

(1) APPROXIMATELY 50 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
(2) RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS ARE PRESENT THROUGHOUT THE MISSION.
(3) A PLUS DENSITY STREAK, PARALLEL TO THE MAJOR

ADVANCE CY

PAGE 3 RUEADJU 102 S E C R E T [REDACTED]
AXIS AND LOCATED 2.0 INCHES FROM THE NON-TITLED EDGE, IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.

(4) FOG CAUSED BY STATIC DISCHARGE CAN BE DETECTED ALONG BOTH EDGES OF THE NEGATIVE.
(5) BANDING IS PRESENT THROUGHOUT THE MISSION.
(6) IMAGE SMEAR AND DOUBLE IMAGERY ARE DETECTABLE ON HIGH OBLIQUE FRAMES.
(7) THE DENSITY AND CONTRAST ARE ADEQUATE WHERE CLOUDS AND HAZE ARE NOT A FACTOR.

- LEFT TECHNICAL OBJECTIVE CAMERA (AL), S/N 64-23.

(1) MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN CONFIGURATION ARE PRESENT THROUGHOUT THE MISSION.
(2) OVAL SHAPED PLUS DENSITY [REDACTED] LOCATED APPROXI-

25X1

25X1

SECRET

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2

MATELY 2.0 INCHES FROM EACH FILM EDGE AND SPACED AT IRREGULAR INTERVALS, ARE DETECTABLE IN LOW DENSITY AREAS.

(3) BANDING IS MORE PROMINENT ON FRAMES IN WHICH THE SHUTTER IS MOVING TOWARD THE SUPPLY END OF THE FILM.

(4) THE FOLLOWING FRAME DATA CHAMBERS ARE EITHER COMPLETELY OR PARTIALLY CONTAINED IN THEIR PRECEDING FORMATS: FRAMES 370, 371, 494, 495, AND 496.

PAGE 4 RUEADJU 101 S E C R E T [REDACTED]

25

(5) EMULSION LIFTS ARE PRESENT IN FRAMES 575 THROUGH 580, 953, 602, AND 687.

(6) EMULSION SCRATCHES ARE PRESENT IN FRAME 585 AND 604.

(7) A HEAT SPLICE IS LOCATED BETWEEN FRAMES 603 AND 604. AN ULTRASONIC SPLICE, WITH HANDLING MARKS, IS PRESENT IN FRAME 671.

(8) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 669/670 AND BETWEEN 1052/1053.

(9) LAST TITLED FRAME: 1063

C. RIGHT TECHNICAL OBJECTIVE CAMERA A-R (SN-6420)

(1) A PLUS DENSITY BAND 0.12 INCH WIDE IS PRESENT 2.0 INCHES FROM THE TITLED EDGE OF THE FILM THROUGHOUT THE MISSION.

(2) A PORTION OF THE FILM (UP TO 2.25 INCHES FROM THE UNTITLED EDGE) BETWEEN FRAMES 586 AND 599 IS EXTENSIVELY DAMAGED. NUMEROUS EMULSION SCRAPES AVERAGING 1.0 INCH LONG AND 0.06 INCH WIDE AND A V-SHAPED TEAR 2.0 FEET LONG WHICH HAS BEEN REPAIRED BY TAPE ARE PRESENT.

(3) AT EVERY POINTING ANGLE CHANGE THE DATA CHAMBERS

PAGE 5 RUEADJU 101 S E C R E T [REDACTED]

25X1

ARE EITHER PARTIALLY OR COMPLETELY EXPOSED WITHIN THE FORMAT OF THE PRECEDING FRAME.

(4) CAMERA OFF/ONS OCCURRED BETWEEN FRAMES 777/778, 839, 840, AND 997/998. FORMAT OVERLAP ASSOCIATED WITH CAMERA OFF/ONS OCCURRED BETWEEN FRAMES 839 THROUGH 843 AND 997 THROUGH 999.

(5) THE LAST TITLED FRAME IS 1161.

5. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERA MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS.

(1) THE DENSITY AND CONTRAST IS MEDIUM AND APPEAR SATISFACTORY.

(2) THE TIMING DOTS IMAGED WITH EACH FRAME BEGIN 0.55 INCH AFTER THE START OF SCAN AND EXTEND 0.85 INCH BEYOND THE END OF SCAN.

(3) THE DATA BLOCK IS SLIGHTLY SKEWED WHICH CAUSED THE MINUTE AND SECOND MARKS TO BE OBSCURED ON THE RIGHT SIDE. APPROXIMATELY 0.1 INCH OF THE DATA BLOCK ENTERS THE FORMAT AREA.

(4) RAIL SCRATCHES ARE PRESENT THROUGHOUT THE MISSION. THEY ARE MORE SEVERE ON THE LEFT OOC THAN ON THE RIGHT OOC.

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3.

(5) SLIGHT TITLING TRANSFER OCCURRED INTERMITTENTLY THROUGHOUT THE MISSION.

(6) THE LAST FRAME OF THE MISSION DISPLAYS FOG PATTERNS ASSOCIATED WITH CAMERA OFF.

B. LEFT OPERATIONAL OBJECTIVE CAMERA (CL), S/N 4027

(1) THE FIRST 0.5 INCH OF SCAN IS DEGRADED AND APPEARS OUT OF FOCUS. THE FIRST 0.25 INCH OF THIS IS MOST SEVERE.

(2) FAINT STRETCH MARKS ARE PRESENT BUT FILM DEGRADATION IS MINOR.

(3) PLUS DENSITY MARKS PARALLEL TO THE MAJOR AXIS OF THE FILM APPEAR INTERMITTENTLY IN THE FORMAT.

PAGE 2 RUEADJU 102 S E C R E T [REDACTED]

25X1

(4) THE FORMAT EDGE ALONG THE TITLED SIDE HAS A RAGGED APPEARANCE ON SOME FRAMES OF THE MISSION.

(5) THERE IS NO BIAS BETWEEN THE EVENTS COUNTER AND THE TITLED FRAME NUMBER.

(6) SPLICES OCCURRED BETWEEN FRAMES 340/341, 455/456, AND 680/681.

(7) A CAMERA OFF/ON OCCURED BETWEEN FRAMES 391/392.

(8) THE LAST TITLED FRAME IS 932.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (CR) S/N, 4002

(1) THE FIRST 0.7 INCH OF IMAGERY IS DEGRADED AND APPEARS OUT OF FOCUS. THE FIRST 0.3 INCH IS THE MOST SEVERE.

(2) DIRT AND FOREIGN PARTICLES ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION: DEGRADATION IS MINOR.

(3) SPLICES OCCUR ON FRAMES 340/341, 426/427 AND 680/681.

(4) A CAMERA OFF/ON OCCURRED BETWEEN TITLED FRAMES 396/397.

(5) A PLUS ONE BIAS IS PRESENT BETWEEN THE EVENTS COUNTER AND THE TITLED FRAME NUMBER.

(6) THE LAST TITLED FRAME IS 947.

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END OF MSG